

Design of Military 13—20 16PR Off-the-road Tire

ZHANG Hua-gang ,SUN Zong-tao ,WU Mao-jun

[Cooper Chengshan (Shandong) Tire Co. ,Ltd,Rongcheng 264300,China]

Abstract: The design of military 13—20 16PR off-the-road tire was described. In the structural design,the following parameters were taken:overall diameter 1 188 mm,cross-sectional width 332 mm,width of running surface 310 mm,arc height of running surface 29 mm,bead diameter at rim seat 512 mm,bead width at rim seat 254 mm,maximum width position of cross-section (H_1/H_2) 0.888 9,cross-country patterns,block/total ratio 48.8%,pattern depth 18 mm,total number of pitches 30. In the construction design,the following processes were taken:three-formula and four-piece tread,6 layers of dipped 2100dtex/2V₁ nylon 6 cord and 2 layers of dipped 2100dtex/2V₂ nylon 6 cord for carcass ply,2 layers of dipped 930dtex/2V₃ nylon 66 cord for breaker ply,two braided steel cords for tire bead,using LCB-3B type building machine to build tires,and using double-mold curing press to cure tires. It was confirmed by the test of finished tires that the peripheral dimension and physical property met the requirements of corresponding design and national standard.

Key words: off-the-road tire;military tire;structure design;construction design

韩泰在德国法兰克福推出概念轮胎

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美国《现代轮胎经销商》(www.moderntire-dealer.com)2013 年 9 月 12 日报道:

韩泰轮胎公司在第 65 届德国法兰克福国际车展上推出 iFlex 概念轮胎,如图 1 所示。



图 1 韩泰 iFlex 概念轮胎

iFlex 未来、环保概念轮胎为非充气轮胎设计,提高了车辆的整体效率。该轮胎由高弹性合成聚氨酯制备,95%可回收利用。

韩泰公司称,iFlex 轮胎与轮辋结合一体生产,行驶时将消耗更少的能量,燃油经济性更好,同时车辆安全性提高。

iFlex 轮胎结构采用有机连接轮辐以分散压力,因此轮胎基部压缩但顶部延伸,以确保舒适、平稳地行驶。

韩泰公司补充说,消费者可以表达自己的个性和风格,中心机架、外层和内部结构有多种颜色可供选择。

(肖大玲摘译 吴淑华校)

水苏糖在改善橡胶耐磨和抗老化方面的应用

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由高鹏申请的专利(公开号 CN 102850616A,公开日期 2013-01-02)“水苏糖在改善橡胶耐磨和抗老化方面的应用”,涉及的水苏糖指从草石蚕、银条、地灵、泽兰、大豆或地黄中提取的固形物中水苏糖质量分数大于 0.7 的产品。在胶料混炼过程中添加 0.1~5 份该水苏糖粉,可显著提高胶料的耐磨和耐老化性能,并具有工艺简单、易于操作、综合性能好、高效、无毒、成本低等优点,适用于轮胎、胶鞋等工业,符合橡胶工业的发展方向。

(本刊编辑部 马 晓)